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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/570,155	12/26/2006	Pavel Kubicek	286814US0PCT	1867
22850 7590 04/14/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			WITHERSPOON, SIKARL A	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1621	
			NOTIFICATION DATE	DELIVERY MODE
			04/14/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)		
	10/570,155	KUBICEK ET AL.		
Office Action Summary	Examiner	Art Unit		
	Sikarl A. Witherspoon	1621		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	L. viely filed the mailing date of this communication.		
Status				
Responsive to communication(s) filed on <u>26 D</u> This action is FINAL . 2b) ☐ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ accertains.	wn from consideration. r election requirement.	≣xaminer.		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/1/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 12-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Schmidt et al (US 6,072,076).

Schmidt et al disclose a reaction plant having a vertical cylinder, comprising three continuous flow rectification columns, and a stirred vessel (fig. 1, and col. 4, line 50 to col. 5, line 42). Although said plant is in a process for the continuous preparation of acrylic acid esters, the plant can be employed in the process for making dichloropropanol according to the present invention; as such, Schmidt et al anticipate the instant claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Britton et al (US 2,144,612) in view of Britton et al (US 2,198,60).

The instant claims are drawn to a process for preparing dichloropropanols by hydrochlorinating glycerine and/or a monochloropropanediol, with gaseous hydrogen chloride in the presence of a carboxylic acid catalyst, wherein the reaction is carried out under solvent-free conditions, with continuous removal or water under reduced pressure.

Britton et al teach in both of their recited patents, the preparation of glycerol dichlorohydrin (a dichloropropanol) by reacting glycerol with hydrogen chloride in the presence of an acetic acid catalyst at a temperature of about 100° C, with removing water from the plant by distillation. The removal of water may be conducted continuously (examples, and p 3, lines 25-55).

The difference between the Britton et al patents and the instant claims is that Britton et al teach the use of a solvent, while the present invention expressly precludes the use of a solvent. However, Britton et al '600 teaches that the solvent is employed specifically for the purification of glycerol dichlorohydrin (p.1, lines 1-3 and examples).

A person having ordinary skill in the art would have recognized from the reactions taught by Britton et al that along with glycerol dichlorohydrin, the acetic acid catalyst and hydrogen chloride would have also been present in the reaction mixture. It also would have been known that since glycerol dichlorohydrin would not be easy to separate from these mixtures simply by distillation, a solvent would be useful to extract the glycerol dichlorohydrin from said mixture. Therefore, the examiner takes the position that based on both patent documents to Britton et al, a person having ordinary skill in the art would have found it beneficial to employ a solvent, **if** a highly pure

Art Unit: 1621

glycerol dichlorohydrin were required, and to conduct the process in the absence of a solvent if such a purified product were deemed unnecessary.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sikarl A. Witherspoon whose telephone number is 571-272-0649. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sikarl A. Witherspoon/ Primary Examiner, Art Unit 1621 Application/Control Number: 10/570,155

Page 5

Art Unit: 1621